



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

ES Windows, LLC  
10653 N.E. Quaybridge Ct.  
Miami, FL 33138

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "ES-P 252" Thermal Broken Aluminum Casement Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. W15-27, Series titled "ES-252 Thermal Alum. Casement Wdw. (L.M.I)", sheets 1 through 8 of 8, dated 06/26/15, with revision "A" dated 07/22/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia, America Latina**, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P. E.**



*8/17/2016*

NOA No. 15-0305.03  
Expiration Date: August 25, 2021  
Approval Date: August 25, 2016  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W15-27**, Series titled "ES-252 Thermal Alum. Casement Wdw. (L.M.I)", sheets 1 through 8 of 8, dated 06/26/15, with revision "A" dated 07/22/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of a horizontal sliding window samples A-1 and D-1, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7798**, dated 04/14/16, signed and sealed by Idalmis Ortega, P.E.

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, conformance to and complying with **FBC 5<sup>th</sup> Edition (2014)**, prepared by Al-Farooq Corporation, dated 04/20/16, revised on 07/20/16, signed and sealed by Javad Ahmad, P.E.
2. **Glazing complies with ASTM E1300-09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.
2. 0.500-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (12.5x6.6x0.15mm) Aluminum Low Profile Insulated-Glass spacer **Helima AH 1250 N** (P/N.: USA K 001 000 000 R7) with Aluminum Alloy **AW-3000** ( $F_{tu}$ =17 ksi and  $F_{ty}$ =12ksi) by **Helmut Lingemann GmbH & Co., KG**. (Helima).

  
\_\_\_\_\_  
**Jorge M. Plasencia, P. E.**  
Product Control Unit Supervisor  
NOA No. 15-0305.03  
Expiration Date: August 25, 2021  
Approval Date: August 25, 2016

**ES Windows, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (CONTINUED)**


3. Ensinger, GmbH Part No. **Tecatherm 66 GF Insulbar** complying with ASTM D638 Tensile Strength of 13,031 psi, ASTM D 1929 Self Ignition 793°F and Flash Ignition – 781°F, ASTM D 2843 Smoke Density of 1.63, ASTM D 635 Rate of Burn 0.752 in./min., ASTM D 790 Flexural Modulus of 870 ksi, ASTM D 256 Notched Izod of 1.9 ft.-lb./in.

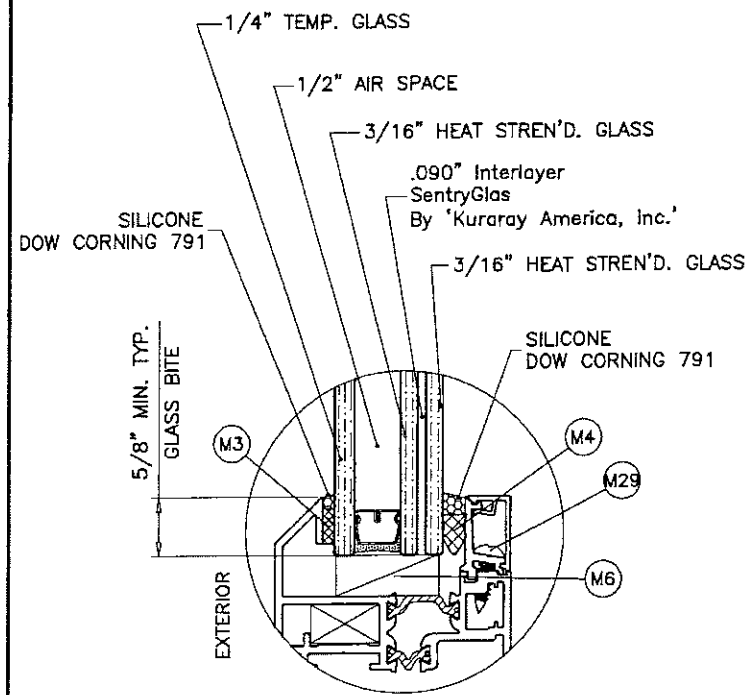
**F. STATEMENTS**

1. Statement letter of conformance to, of complying with **FBC 5<sup>th</sup> Edition (2014)**, and of no financial interest, dated 04/20/16, signed and sealed by Javad Ahmad, P. E.
3. Distributor Agreement between ES Windows-Energia Solar, S.A., Barranquilla, Columbia, S.A. and ES Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.
4. Laboratory compliance letter for Test Report No. **FTL-7798**, issued by Fenestration Testing Laboratory, Inc., dated 04/14/16, signed and sealed by Idalmis Ortega, P. E.
5. Proposal issued by Product Control, dated 10/18/12, signed by Jaime D. Gascon, P. E.

**G. OTHERS**

1. None.

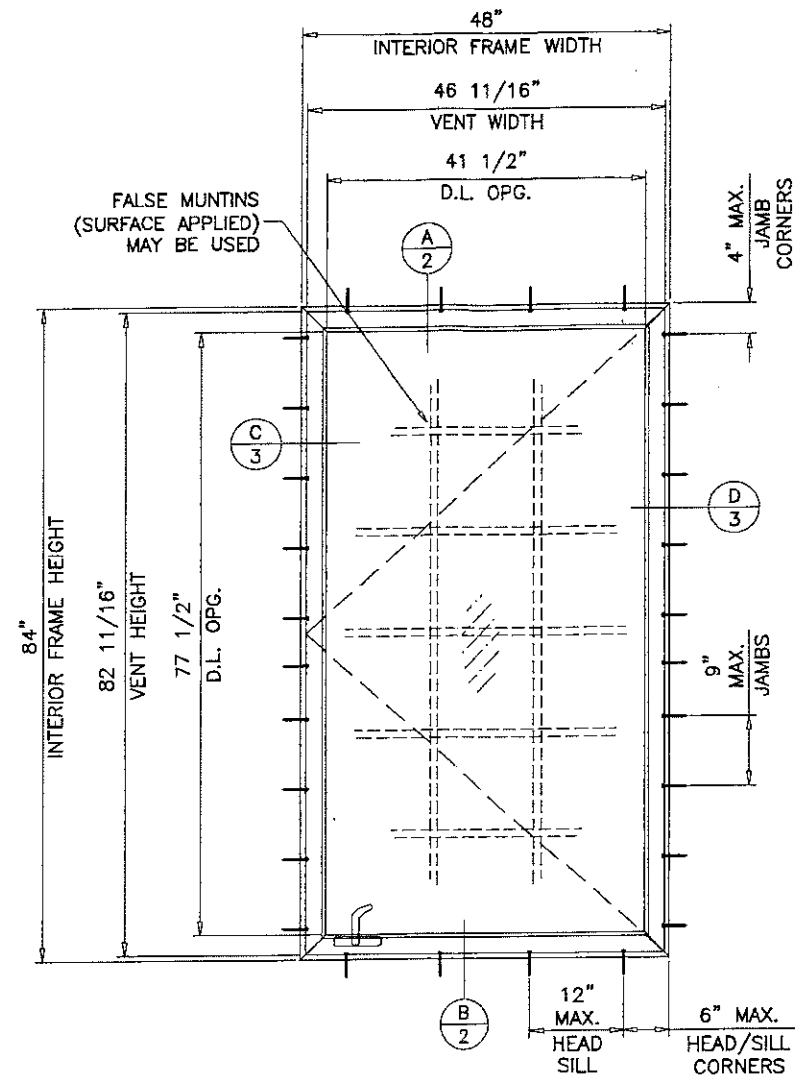
  
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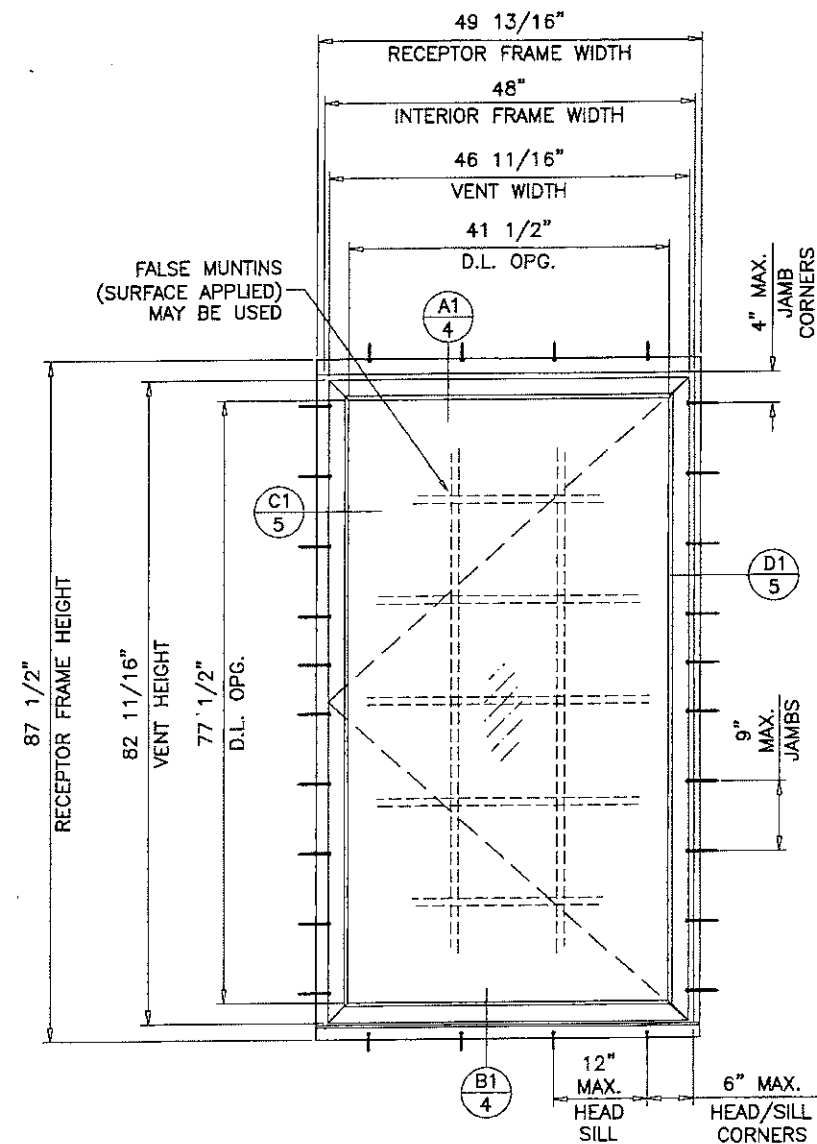
**GLAZING DETAIL**  
1-3/16" OVERALL NOM. THK.

**1/2" AIR SPACE CONSISTING OF:**

**SPACER:**  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
**PERIMETER SEALANT:**  
SILICONE  
DOW CORNING 791  
GE 2000



**TYPICAL ELEVATION**  
ANCHORS THRU WDW. FRAMES



**TYPICAL ELEVATION**  
ANCHORS THRU RECEPTOR FRAMES

**MAXIMUM DESIGN LOAD RATING = + 95.0 PSF**  
(FOR SIZES SHOWN ABOVE OR SMALLER) - 105.0 PSF

**ES-P252 (L.M.I.)**

**THERMAL ALUMINUM CASEMENT WINDOW**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE & ADOPTED STANDARDS.

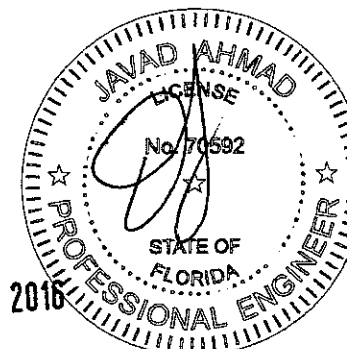
**NOTE:**  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. **15-0305.03**

Approval Date **08/25/2016**

By *[Signature]*  
Miami-Dade Product Control



AUG 11 2016

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
C.A.N. 3538

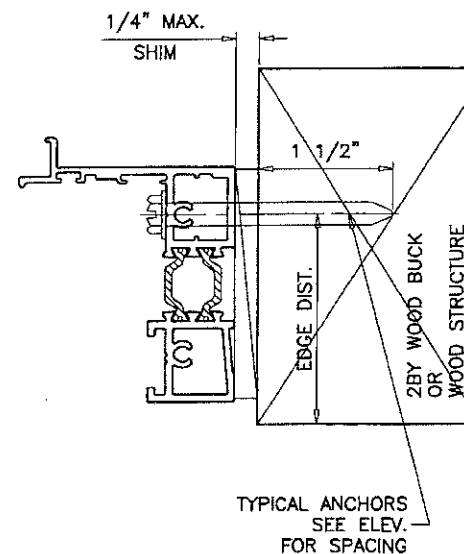
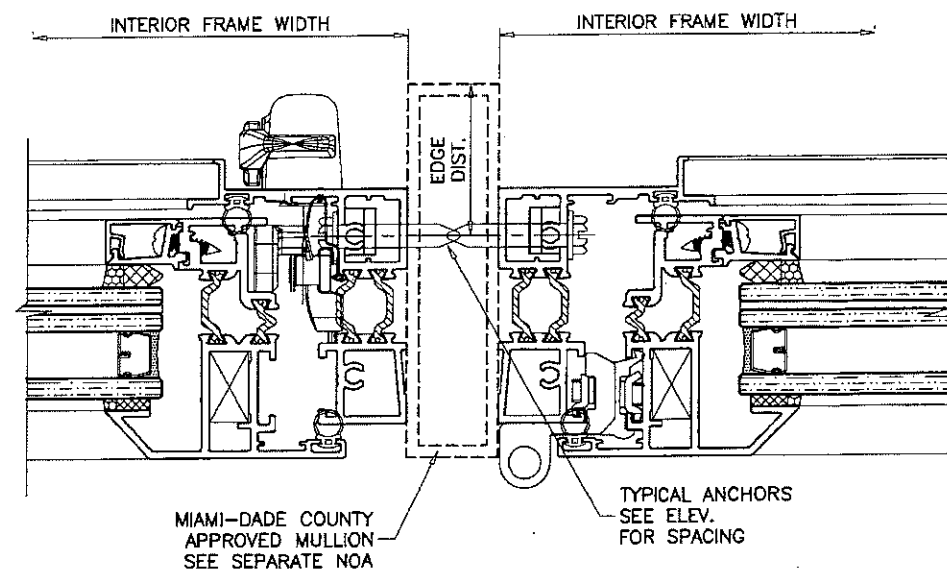
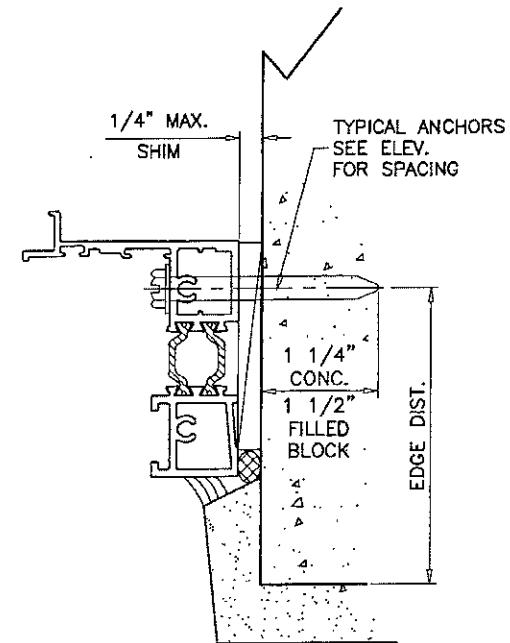
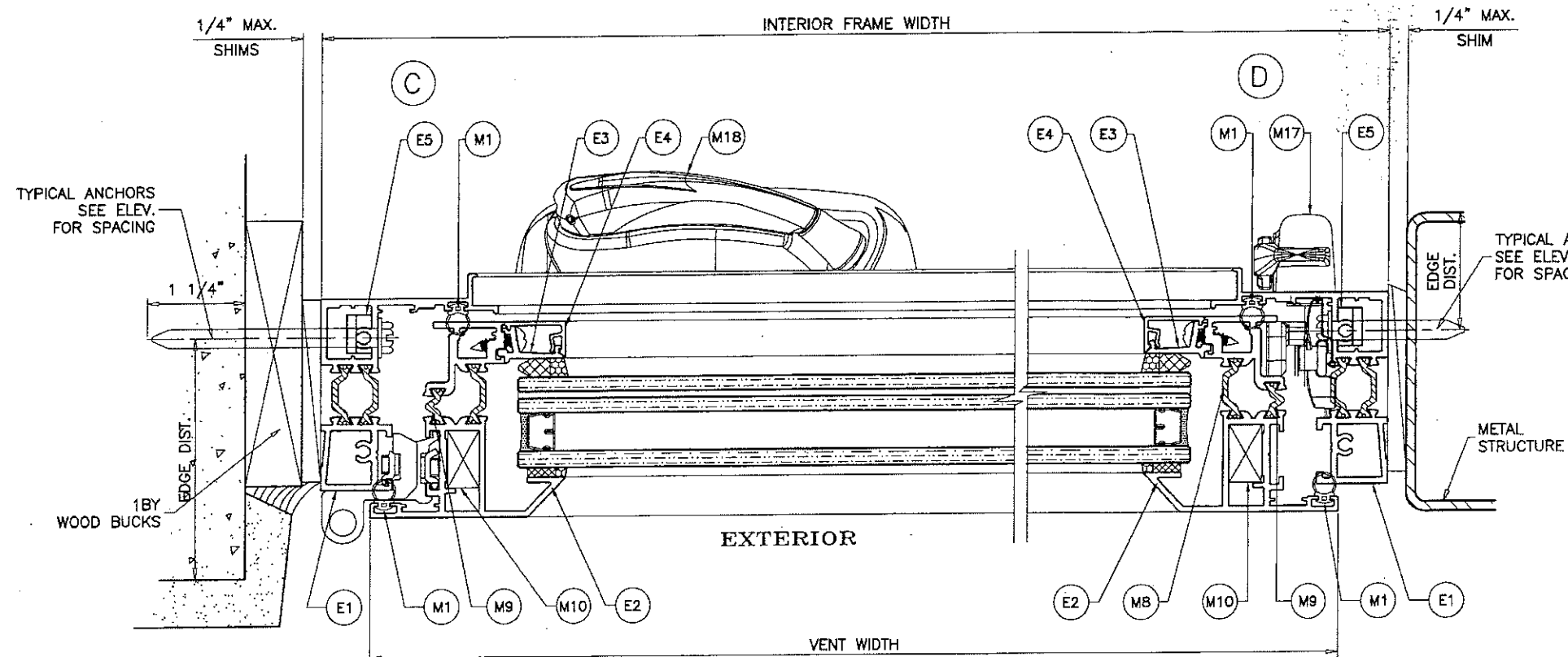
ES-P252 THERMAL ALUM CASEMENT WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
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chk. by:	

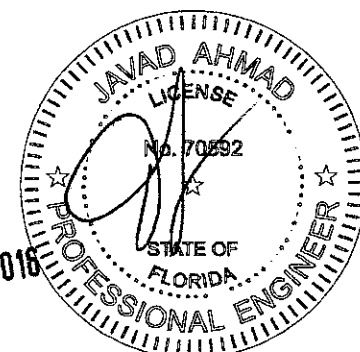
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**W15-27**  
sheet 1 of 8





**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. **15-0305.03**  
Approval Date **08/25/2016**  
By *[Signature]*  
Miami-Dade Product Control

AUG 11 2016



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL W15-27ESW

**E.S. WINDOWS, LLC**  
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revisions:	no	date	by	description	REV. PER	COMMENTS
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date: 06-26-15

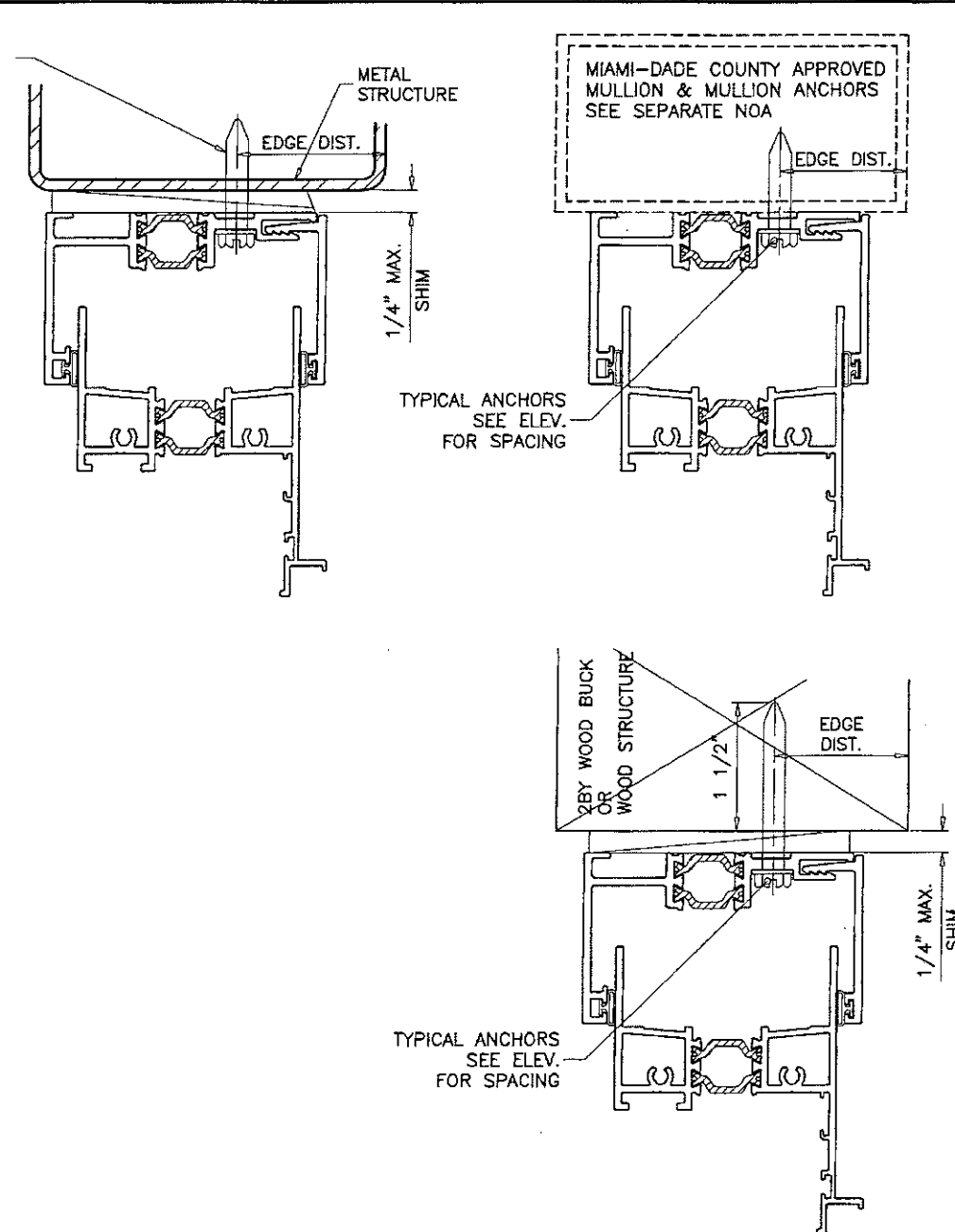
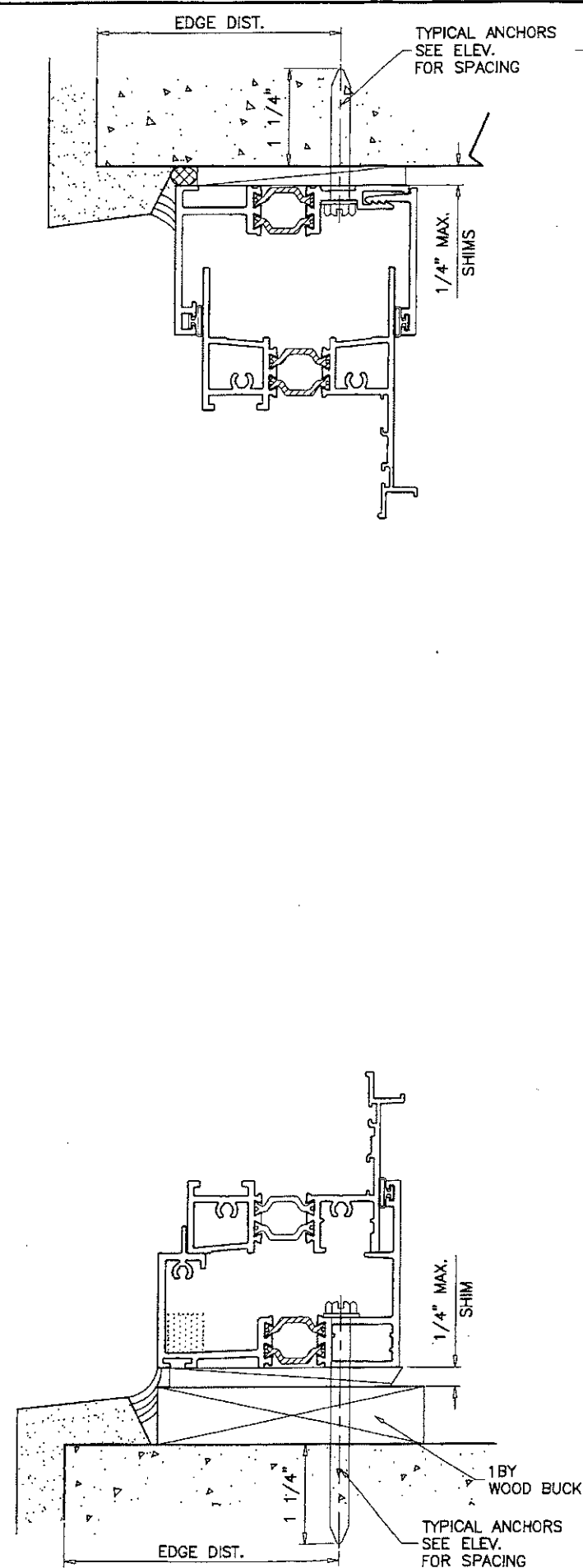
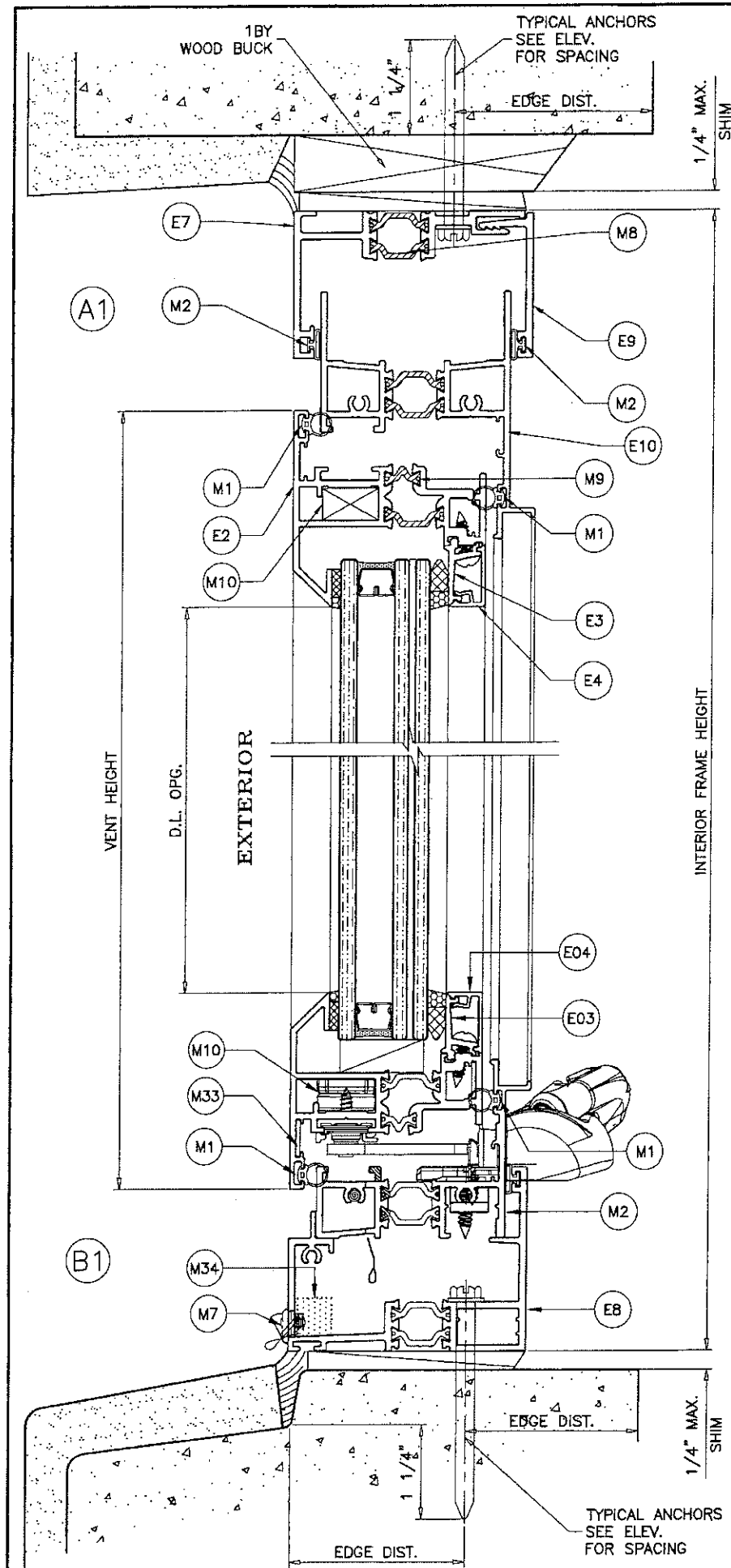
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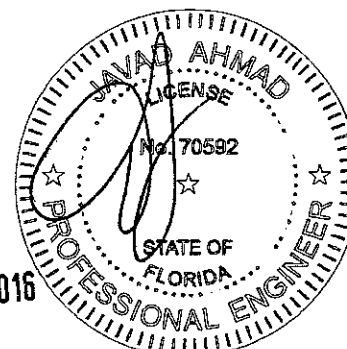
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**W15-27**

sheet 3 of 8



**PRODUCT APPROVED**  
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Approval Date **08/25/2016**  
By **Miami-Dade Product Control**



AUG 11 2016

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MIAMI, FLORIDA 33173  
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**a f c**  
MIAMI-DADE COUNTY APPROVED  
MULLION & MULLION ANCHORS  
SEE SEPARATE NOA

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ES-P252 THERMAL ALUM CASEMENT WDW. (L.M.I.)  
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COMP-ANL W15-27ESW

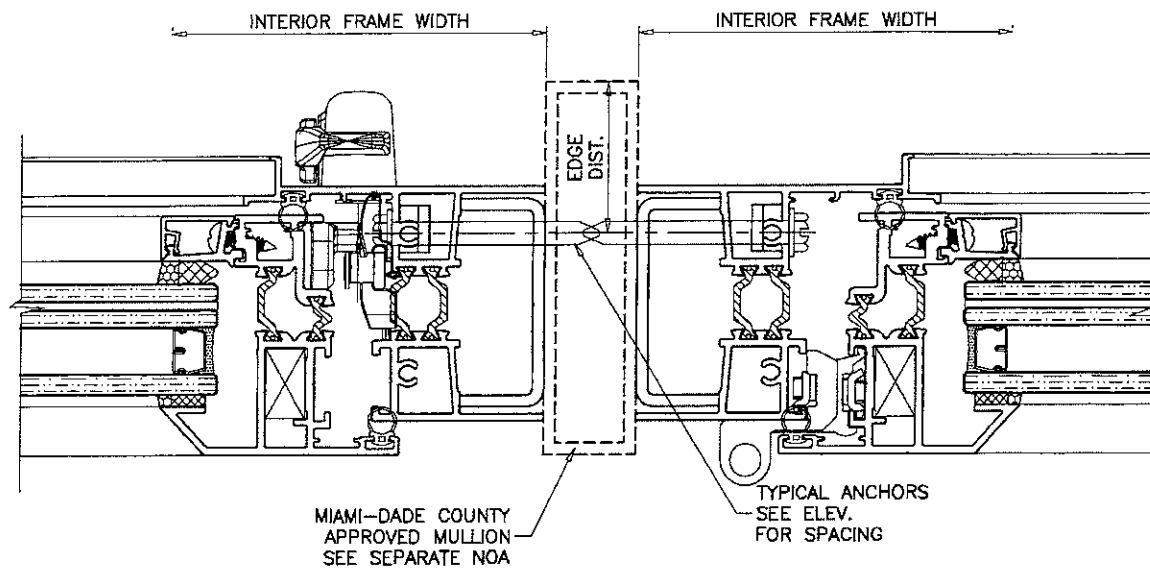
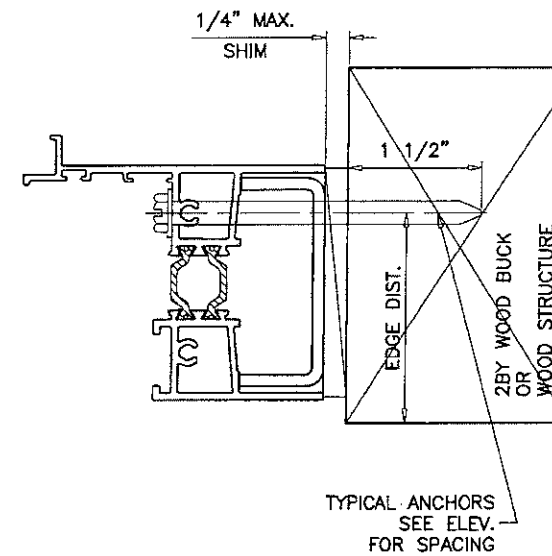
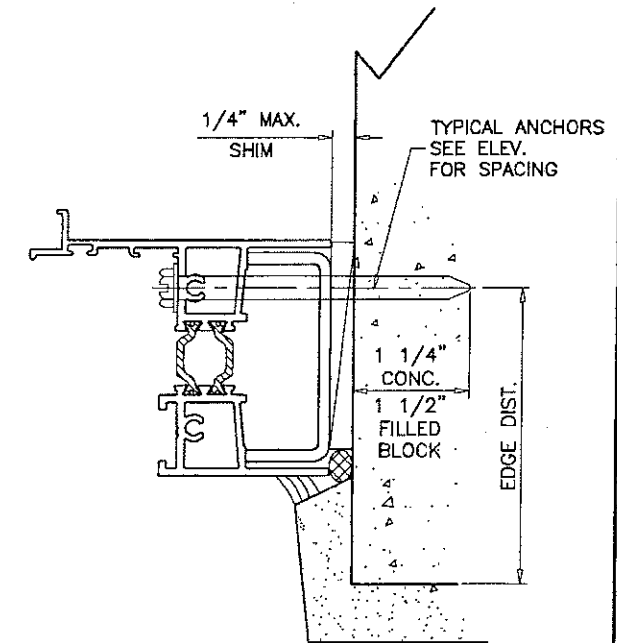
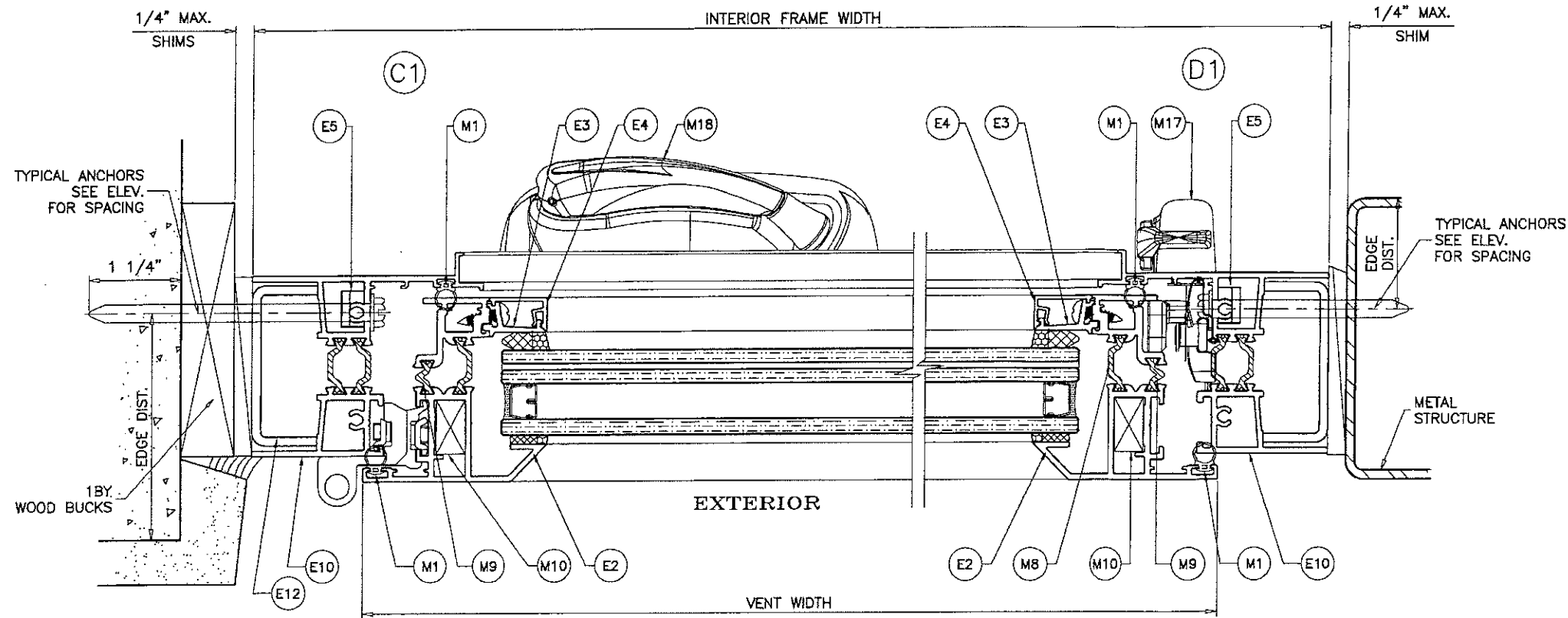
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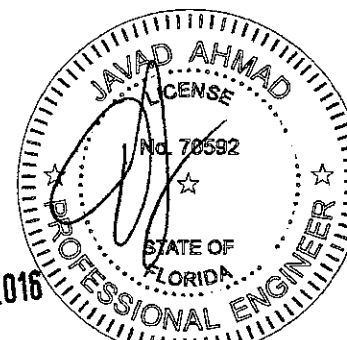
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drawing no. **W15-27**  
sheet 4 of 8



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revisions:		date		by description	
no	date	no	date	by	description
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date: 06-28-15

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dr. by: TARIQ

chk. by:

drawing no.  
**W15-27**

sheet 5 of 8



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-P250-001/P252-001	4	FLUSH FRAME HEAD/SILL/JAMB	6063-T6	-
E2	ES-P252-002/P250-003	4	VENT	6063-T6	-
E3	ES-P252-004	4/ VENT	GLASS STOP	6063-T6	-
E4	ES-P252-003	-	COVER IMPACT	6063-T6	-
E5	AAC-A-027	1/ CORNER	FRAME ATTACHMENT ANGLE	6063-T6	-
E7	ES-P250-010/P251-013	AS REQD.	RECEPTOR HEAD	6063-T6	-
E8	ES-P251-016/032	1	RECEPTOR SILL	6063-T6	-
E9	ES-P251-014	1	RECEPTOR STOP	6063-T6	-
E10	ES-P250-017/P252-012	-	EQUAL LEG FRAME HEAD/JAMB	6063-T6	-
E12	-	AS REQD.	JAMB REINF. CHANNEL	6063-T6	-
M1	ES-P251-005	AS REQD.	INTERIOR VENT GASKET	EPDM	TREMCO #TX-20003E, DUROMETER 70±5 SHORE A
M2	27-245	AS REQD.	FRAME RECEPTOR	EPDM	CANALVIDRIOS, DUROMETER 65±5 SHORE A
M3	-	-	GLAZING TAPE (1/8" X 3/8")	POLYURETHANE	-
M4	ES-H340-G02	-	GLAZING WEDGE	EPDM	DUROMETER 60±5 SHORE A
M6	ES-6025-B01	-	SETTING BLOCK AT VENT	EPDM	TREMCO TR-1870E, DUROMETER 85±5 SHORE A
M7	WA2L	-	WEEP HOLE COVER	-	PREFERRED
M8	2479	AS REQD.	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER
M9	2531	AS REQD.	INSULBAR 12MM OFFSET	POLAMIDE	ENSINGER
M10	0337	-	CORNER JOINT	DIECAST ALUM	ENSINGER
M11	CL02-002X	-	LOCK POINT BAR	ST. STEEL	INTERLOCK
M12	CL02-2059-00B	-	STRIKER	-	INTERLOCK
M13	CL02-2060-00B	-	LOCKING BAR GUIDE	-	INTERLOCK
M14	C011-0151-085	-	13.5" SA OPERATOR LOW PROFILE RH	ST. STEEL	INTERLOCK
M15	C011-0152	-	13.5" SA OPERATOR LOW PROFILE LH	ST. STEEL	INTERLOCK
M16	C011-0704	-	TRACK	ST. STEEL	INTERLOCK
M17	CL01-0475	-	MULTIPOINT HANDLE	DIE CAST ZINC	INTERLOCK
M18	C011-0605-XXX	-	COVER OPERATOR HANDLE LEFT	-	INTERLOCK
M19	C011-0606-XXX	-	COVER OPERATOR HANDLE RIGHT	-	INTERLOCK
M20	CL01-2250-XXX	-	SNAP ON COVER	DIE CAST ZINC	INTERLOCK
M21	CL01-1050-XXX	-	SNAP ON HANDLE	COPOLYMER	INTERLOCK
M22	C001-4001	-	CLAMP WASHER	ST. STEEL	INTERLOCK
M23	A1199X0003	-	EURO HINGE	ST. STEEL	AMC
M24	#10 X 2" FH	-	FRAME CORNER FASTENER	ST. STEEL	-
M26	#10 X 3/4" PH	-	FRAME CORNER ANGLE FASTENER	ST. STEEL	-
M27	#8 X 1" FH	-	STRIKER FASTENER	ST. STEEL	-
M28	#8 X 1/2" FH	-	GUIDE, OPERATOR, TRACK FASTENER	ST. STEEL	-
M29	#8 X 5/8" PH SMS	-	GLASS STOP FASTENER	ST. STEEL	AT 4" FROM ENDS & 8-1/4" O.C.
M30	#8-32 X 1/2" PH	-	LOCKING HANDLE CLAMP WASHER FASTENER	ST. STEEL	-
M31	#8 X 1/2" PH	-	END DAM FASTENER	ST. STEEL	-
M32	C001-4000	-	CLAMP WASHER	ROH	INTERLOCK
M33	PJS43-SS	-	CORNER LOCK	ST. STEEL	-
M34	WPSA-N1	-	3/4" X 3/4" X 2" RETICALATED FOAM	OPEN CELL FOAM	30 PP1

#### SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH WHITE/ALUMINUM COLORED GENERAL PURPOSE SILICONE SEALANT BY MACKLANBURG-DUNCAN.

#### LOCKS:

SEVEN POINT LOCK SYSTEM BY 'INTERLOCK' LOCATED AT FRAME JAMB AT 10" FROM BOTTOM FASTENED WITH (2) #8-32 X 1/2" PH MS

(10) SLIDE BAR NYLON GUIDES, EACH FASTENED TO FRAME JAMB WITH (2) #8 X 1" FH SMS

SURFACE MOUNT NYLON KEEPERS AT VENT FACING LOCKING POINTS EACH FASTENED WITH (2) #10 X 3/4" FH SDS

#### HINGES:

SURFACE MOUNT METALLIC PIVOT HINGE LOCATED AT FRAME JAMB AT 8" FROM TOP & BOTTOM FASTENED WITH (2) #12-28 X 1/2" FH MS  
(2) 1/4-20 X 1/4" SET SCREW

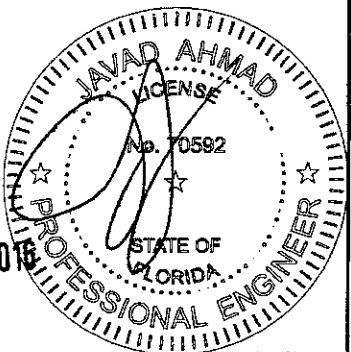
#### OPERATOR:

ROTO OPERATOR BY 'INTERLOCK' LOCATED AT SILL END FASTENED WITH (6) #8 X 3/4" FH SMS  
(2) #8-32 X 7/16" FH MS

**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. **15-0305.03**

Approval Date **08/25/2016**

By   
Miami-Dade Product Control



AUG 11 2016

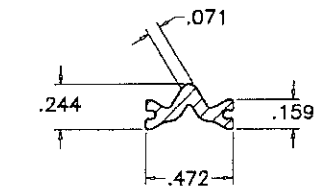
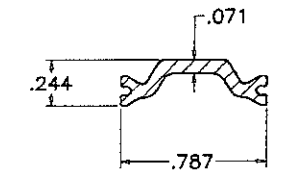
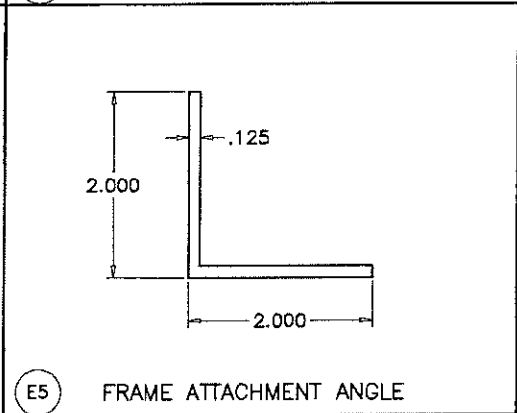
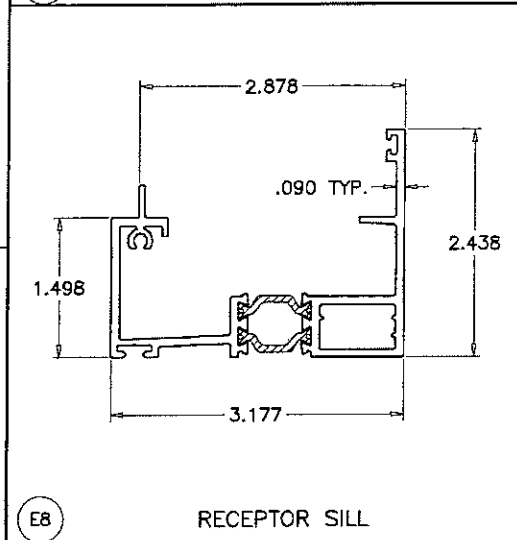
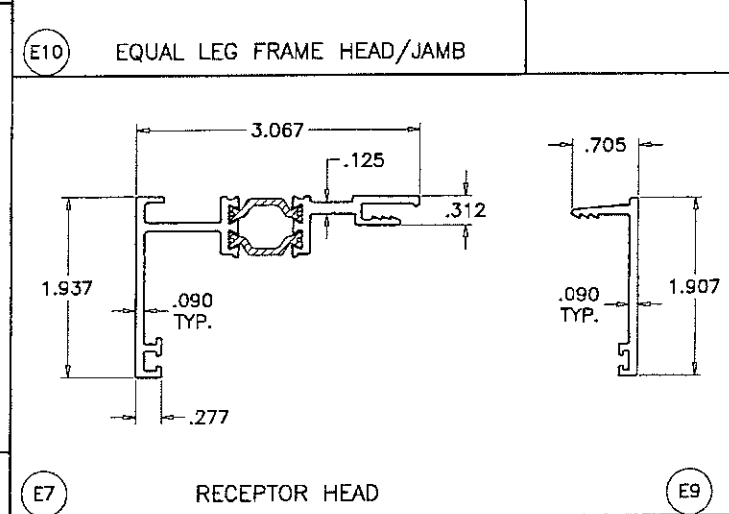
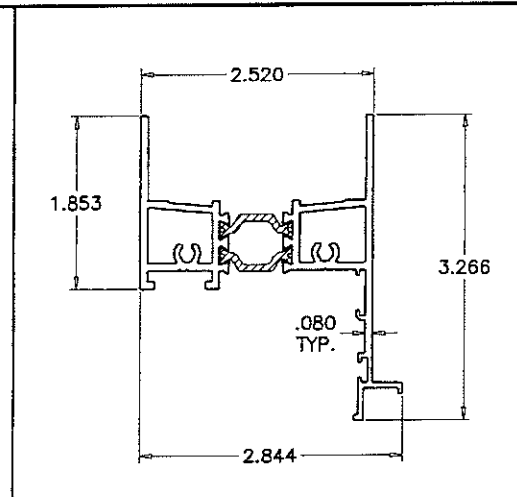
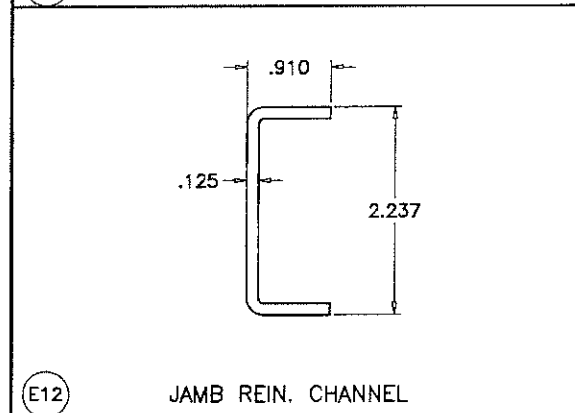
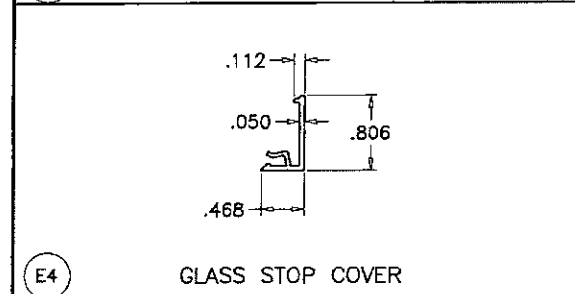
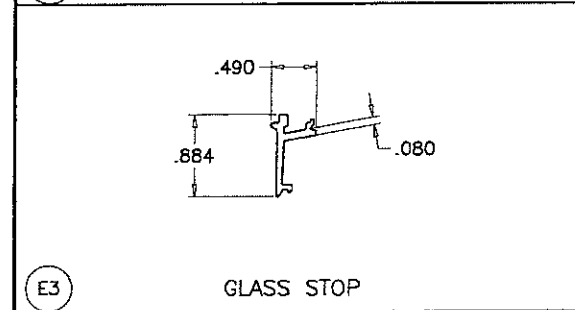
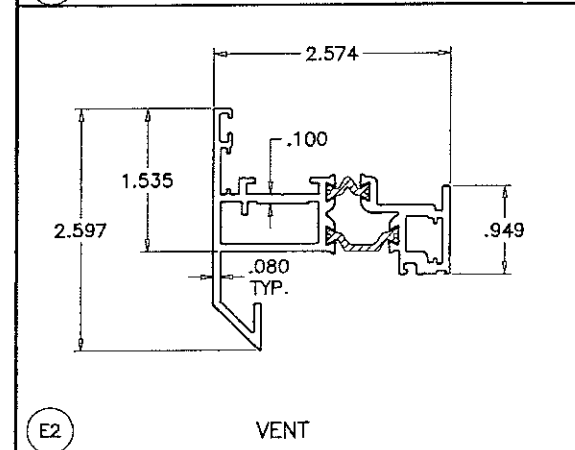
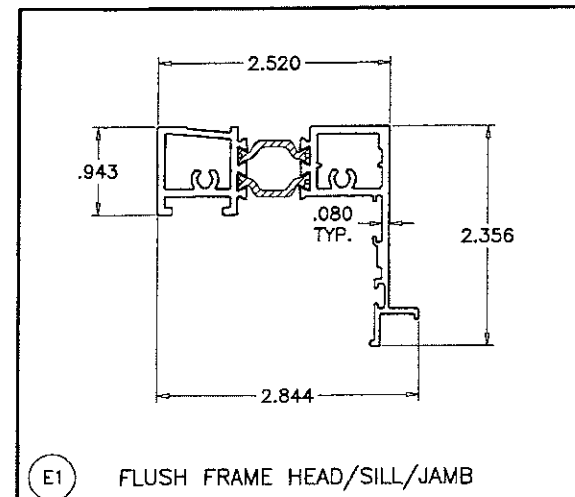
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978  
FAX. (305) 262-6978  
(C.A.N. 3538)

ES-P252 THERMAL ALUM CASEMENT WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	A	07/22/16		NO CHANGE THIS SHEET

date: 06-28-15  
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dr. by: TARIQ  
chk. by:

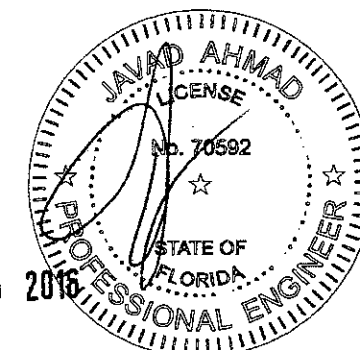
drawing no.  
**W15-27**  
sheet 6 of 8



TECATHERM® 66 GF INSULBARS  
SCALE 1:1

MATERIAL = POLYAMIDE  
TENSILE STRENGTH = 13031 PSI  
RATE OF BURN = .752 IN./MIN.  
SELF IGNITION TEMP. = 793° F  
FLASH IGNITION TEMP. = 781°C  
SMOKE DENSITY = 1.63

**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. 15-0305.03  
Approval Date 08/25/2016  
By Miami-Dade Product Control



AUG 11 2016

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL (305) 264-8100 FAX (305) 262-6978  
(C.A.N. 3538)

COMP-ANL\W15-27ESW

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ES-P252 THERMAL ALUM CASEMENT WDW. (L.M.I.)

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MIAMI, FL. 33142  
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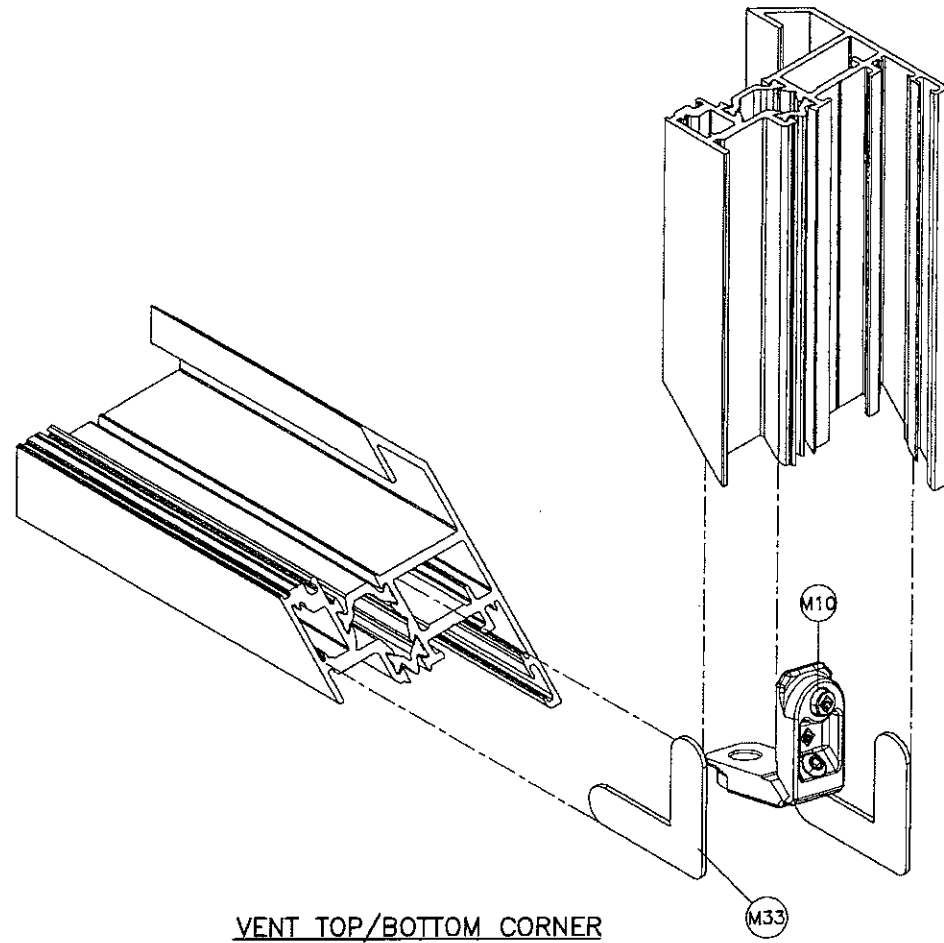
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**W15-27**  
sheet 7 of 8

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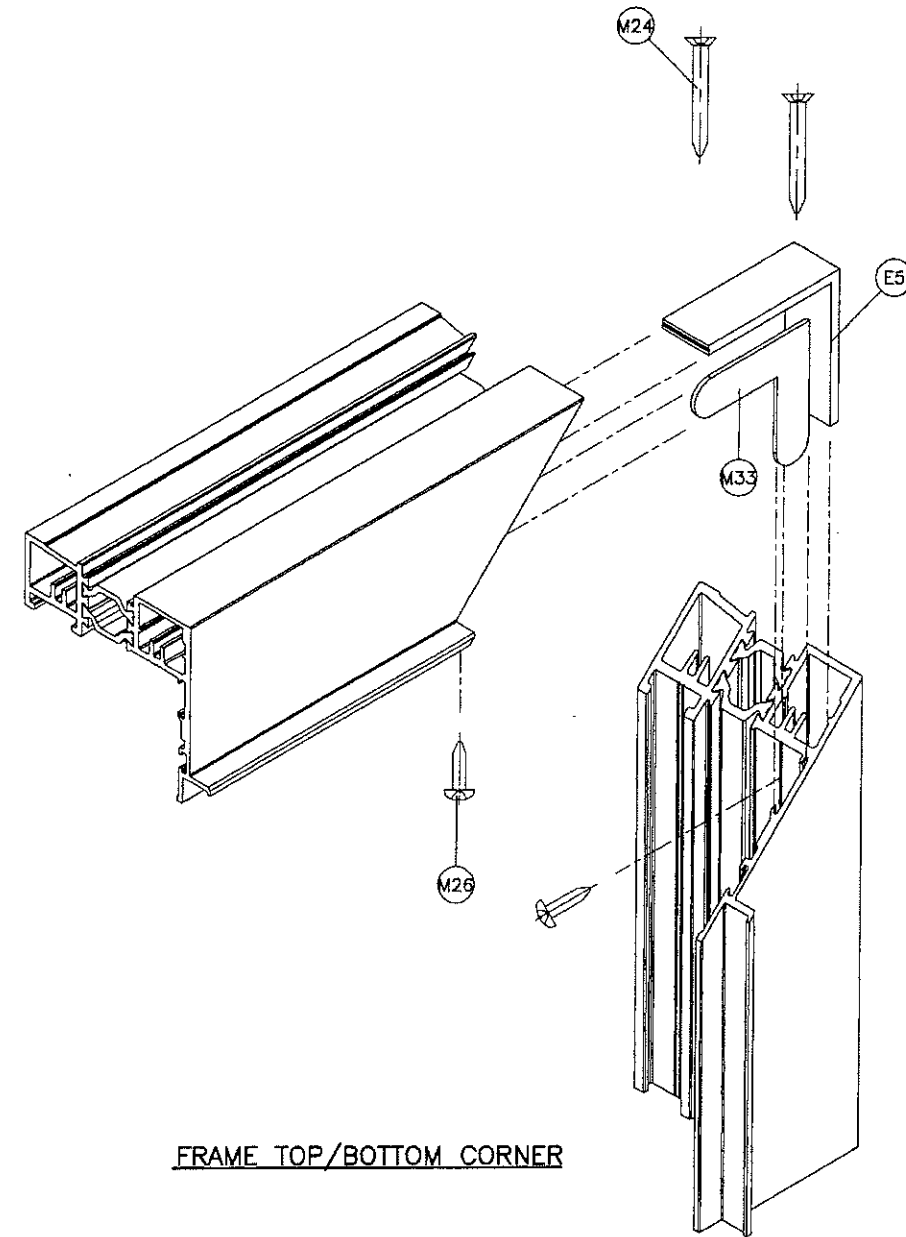
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date: 08-26-15	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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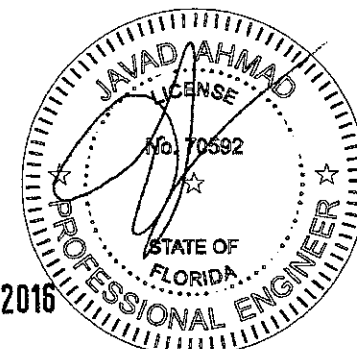


VENT TOP/BOTTOM CORNER



FRAME TOP/BOTTOM CORNER

**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. **15-0305.03**  
Approval Date **08/25/2016**  
By **Miami-Dade Product Control**



AUG 11 2016

<b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		COMP-ANI\W15-27ESW	
ES-P252 THERMAL ALUM CASEMENT WDW. (L.M.I.)		<b>E.S. WINDOWS, LLC</b> 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions: no. date by description A 07.22.16 NO CHANGE THIS SHEET	date: 06-26-15 scale: 1/2" = 1" dr. by: TARIQ chk. by:	drawing no. <b>W15-27</b> sheet 8 of 8	